



Docket No.: 0171-1311PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Go ONO et al.

Application No.: 10/593,772

Confirmation No.: 9154

Filed: September 22, 2006

Art Unit: 1774

For: CHARGE-TRANSPORTING VARNISH AND

ORGANIC ELECTRO-LUMINESCENT DEVICES MADE BY USING THE SAME

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on September 22, 2006, attached hereto is an English translation of the International Preliminary Examination Report (Form PCT/IPEA/409) that should be made of record in the present application. Additionally, we also attach hereto a copy of the Notification of Transmittal of Copies of Translation of the IPER on Patentability (Form PCT/IB/338) that should also be made of record in the present application.

Application No.: 10/593,772 Docket No.: 0171-1311PUS1

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: April 9, 2007

Respectfully submitted,

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Attachment(s)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FAP-4141			FOR FURTHER ACTION		See Form PCT/IPEA/416		
International application No.			International filing date (day/month/year)		Priority date (day/month/year)		
			1.03.2005	•	25.03.2004		
International Patent Classification (IPC) or national classification and IPC C08L79/00, C08L79/08, C09K11/06, H01L51/50							
Applicant NISSAN CHEMICAL INDUSTRIES, LTD.							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This l	REPORT consists	of a total of 4		sheets, including	g this cover sheet.		
ľ		mpanied by ANNEX					
ļ ["]	_				dente de Callanne		
a. L	(sent to the	applicant and to the	International Bureau) a	total of	sheets, as follows:		
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
! . г	_	7		a turns and number	er of electronic carrier(s))		
b. L	(sent to the	пиетанона витеа	tomy) a local of (mulcar	e type and numbe	To detection to carrier(s))		
1					_ , containing a sequence listing and/or tables		
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This	report contains ind	ications relating to t	he following items:				
	Box No. I	Basis of the report					
	Box No. II	Priority	•				
	Box No. III Non-establishment of opinion with regard to novelty. inventive step and industrial applicability						
	Box No. IV Lack of unity of invention						
\boxtimes	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement						
	Box No. VI Certain documents cited						
	Box No. VII Certain defects in the international application						
	Box No. VIII Certain observations on the international application						
Date of submis	sion of the deman	d	Date of	f completion of th	из героп		
Name and mailing address of the IPEA/JP			Author	Authorized officer			
Facsimile No.			Teleph	Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/005347

Box	No. I	Basis of the report	
1.		regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise rated under this item.	
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	
		international search (Rule 12.3 and 23.1(b))	
		publication of the international application (Rule 12.4)	
		international preliminary examination (Rule 55.2 and/or 55.3)	
2.	recei	a regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to a diving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed report):	he to
	\bowtie	the international application as originally filed/furnished	
	Ш	the description:	
		pages as originally filed/furnished	1
		pages* received by this Authority on	
		pages* received by this Authority on	
		the claims:	
		nos as originally filed/furnished	d
		nos.* as amended (together with any statement) under Article 1	9
		nos.* received by this Authority on	
		nos.* received by this Authority on	
	\Box		
		the drawings:	a
		sheets as originally filed/furnishe	
		sheets* received by this Authority on	•
	_	sheets* received by this Authority on	•
	Ш	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	-
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	_
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, sir they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	ice
		the description, pages	_
		the claims, nos.	_
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	_
*	If ite	rm 4 applies, some or all of those sheets may be marked "superseded."	_

International application No.
PCT/JP2005/005347

Вох	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	10, 11	YES		
		Claims	1-9	NO		
	Inventive step (IS)	Claims		YES		
		Claims	1-11	NO		
	Industrial applicability (IA)	Claims	1-11	YES		
		Claims		NO		

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 7-90179 A (Kabushiki Kaisha Tomoekawa Seisakusho), 04 April 1995, claims; paragraphs [0002] to [0005], [0007], [0009] to [0010], [0016] and [0021]; examples
 - Document 2: JP 11-185962 A (Shadan Hojin Koto Gijutsu Kenkyuin Kenkyukumiai), 09 July 1999, claims, examples

The inventions set forth in claims 1 to 9 are disclosed in document 1 cited in the international search report; therefore, the inventions in question lack novelty and do not involve an inventive step.

Document 1 is considered to disclose a conductive varnish that comprises a polyimide precursor and either a polyaniline or a combination of a polyaniline and a dopant, wherein said constituents have been dissolved in a solvent. Therein, the abovementioned polyaniline has a number-average molecular weight of between 2,000 and 500,000, and said range overlaps with the range for the number-average molecular weight of the polyaniline in the inventions set forth in claims 1 to 9. Furthermore, document 1 indicates that the number-average molecular weight of the polyaniline is determined so as to

International application No.
PCT/JP2005/005347

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

accommodate a balance of characteristics such as the solubility of the solvent and the mechanical strength of the resulting varnish (refer to paragraph [0007], etc.), like in the inventions set forth in the present application. Such being the case, both inventions involve the same technical concept.

As a result, the inventions set forth in claims 1 to 9 are either the same as the invention disclosed in document 1, or would have been easy for a person skilled in the art to conceive of in the light of the invention disclosed in document 1.

The invention set forth in claims 10 and 11 does not involve an inventive step in the light of document 1 and document 2 cited in the international search report.

The feature wherein a conductive varnish obtained by dissolving a polyimide (precursor) and either a polyaniline or a combination of a polyaniline and a dopant in a solvent is used to form the charge-transport film of an organic electroluminescent element was well known, as disclosed in document 2. Such being the case, it would not have been especially difficult for a person skilled in the art to conceive of employing the varnish disclosed in document 1 in a similar manner.

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

KOJIMA, Takashi GINZA OHTSUKA Bldg.2F 16-12, Ginza 2-chome Chuo-ku, Tokyo 1040061 JAPON



Date of mailing (day/month/year)
18 January 2007 (18.01.2007)

Applicant's or agent's file reference
FAP-4141

International application No.
PCT/JP2005/005347

Applicant

NISSAN CHEMICAL INDUSTRIES, LTD. et al

l.	Transmittal	of the	translation	to	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70 Form PCT/IB/338 (January 2004)